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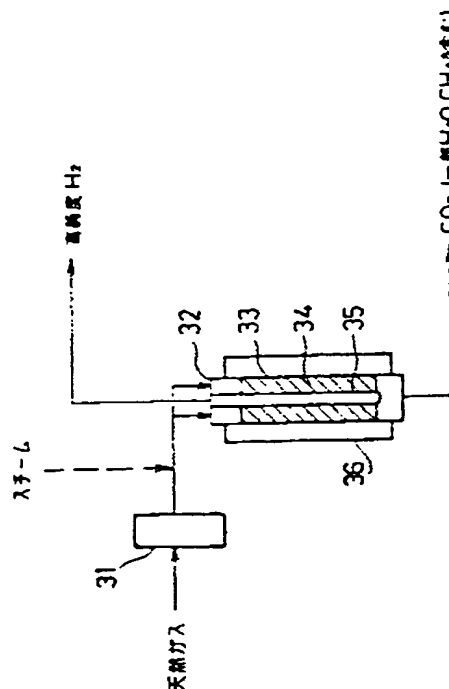
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INVENTOR : KIKUCHI HIDEKAZU;

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TITLE : PRODUCTION OF HYDROGEN



ABSTRACT : PURPOSE: To obtain hydrogen having high purity without any apparatus for separating and purifying, by separating H₂ produced together with bringing about steam reforming reaction of hydrocarbon, with membrane selectively penetrating hydrogen and a catalyst for steam reforming having excellent activity at a low temp.

CONSTITUTION: The catalyst for steam reforming 34 contg. the group VIII metal is packed between an inner pipe 35 formed its peripheral wall with the membrane selectively penetrating hydrogen and a hydrogen-unpenetrable outer pipe 33 equipped concentrically about the inner pipe 35. The steam reforming reaction is brought about there and the produced hydrogen is removed from the inner pipe 35 by passing the hydrogen through the wall of the inner pipe 35. The raw material is steam-reformed to produce hydrogen. The produced hydrogen is separated as hydrogen having high purity through the wall of the inner pipe 35 formed with the membrane selectively penetrating hydrogen.

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